

WE CLAIM:

1 1. A motor-vehicle antenna comprising:
2 a monopole formed by a rigid circuit-board having a
3 conductive trace;
4 means including a socket for connecting a coaxial cable
5 to the monopole; and
6 a ground plane formed of rigid sheet metal or a circuit
7 board and fixed to the monopole.

1 2. The motor-vehicle antenna defined in claim 1
2 wherein the monopole and the ground plane are permanently bonded
3 together.

1 3. The motor-vehicle antenna defined in claim 1
2 wherein the ground plane is formed with an edge flange.

1 4. The motor-vehicle antenna defined in claim 3
2 wherein the monopole is fixed to the edge flange.

1 5. The motor-vehicle antenna defined in claim 1
2 wherein both the ground plane and monopole are substantially
3 planar and extend generally perpendicular to each other.

1 6. The motor-vehicle antenna defined in claim 1
2 wherein the socket includes jaws crimpable to the coaxial cable.

1 7. The motor-vehicle antenna defined in claim 6
2 wherein the socket is fixed to the monopole or to the ground
3 plane.

1 8. The motor-vehicle antenna defined in claim 6
2 wherein the ground plane is made of sheet metal and the socket is
3 unitarily formed with the ground plane.

1 9. The motor-vehicle antenna defined in claim 1,
2 further comprising
3 a splitter having a pair of inputs connectable via
4 respective coaxial cables to two such monopoles and an output
5 connectable to a receiver.

1 10. The motor-vehicle antenna defined in claim 1,

2 further comprising

3 a splitter having a pair of outputs connectable via
4 respective coaxial cables to two such monopoles and an input
5 connectable to a transmitter.

1 11. The motor-vehicle antenna defined in claim 1,

2 further comprising

3 a splitter having a printed-circuit board and two
4 sockets connectable via respective coaxial cables to two such
5 monopoles and another socket connectable to transmitter or
6 receiver.

1 12. The motor-vehicle antenna defined in claim 11

2 wherein the splitter further comprises

3 a housing holding the printed-circuit board of the
4 splitter.

1 13. A motor-vehicle antenna comprising:

2 a monopole formed by a rigid circuit-board having a
3 conductive trace;

4 means including a socket for connecting a coaxial cable
5 to the monopole; and

6 a ground plane formed of rigid sheet metal, having an
7 edge flange fixed to the monopole, and extending generally
8 perpendicular to the monopole.

1 14. The motor-vehicle antenna defined in claim 13
2 wherein the flange is formed with a slot into which the board is
3 set.

15. The motor-vehicle antenna defined in claim 13
wherein the flange is unitarily formed with the socket.